MOVING HEAD SPOT

USER MANUAL

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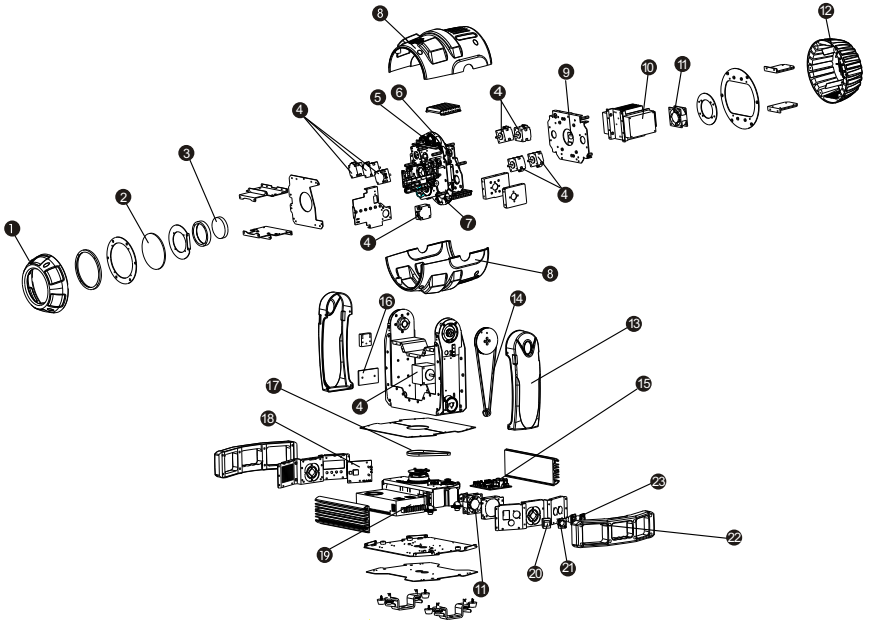
5 APPENDIX

5.1 MAINTENANCE



No	ITEM
1	Head cover
2	Φ 120 lenses
3	Φ 70 lenses
4	Motor
5	Rotation gobo wheel
6	Color wheel
7	Wheel fixer
8	Head cover

No	ITEM
9	LED PCB
10	Motor driver board
11	Fan
12	Back cover
13	Arm
14	Tilt belt
15	Master PCB
16	LED driver PCB

No	ITEM
17	Pan belt
18	Display PCB
19	Power switch
20	Power socket
21	Fuse
22	Handle
23	XRL Plug(male/female)

CHANNEL	VALUE	FUNCTION
13		**STROBE**
	0 ⇔ 31	Close
	32 ⇔ 63	Open
	64 ⇔ 95	Strobe: Slow > Fast
	96 ⇔ 127	Open
	128 ⇔ 159	Rulse strobe effect: Slow> Fast
	160 ⇔ 191	Open
	192 ⇔ 223	Random strobe effect: Slow> Fast
	224 ⇔ 255	Open
14		**CONTROL**
	0 ⇔ 19	No function
	20 ⇔ 39	Pan/tilt black activated (activated after 3 secs)
	40 ⇔ 59	Pan/tilt black deactivated (activated after 3 secs)
	60 ⇔ 139	No function
	140 ⇔ 149	Auto1
	150 ⇔ 159	Auto2
	160 ⇔ 169	Test
	170 ⇔ 179	Custom
	180 ⇔ 189	Sound 1
	190 ⇔ 199	Sound 2
	200 ⇔ 219	Reset
	220 ⇔ 255	No function

1 PRODUCT SPECIFICATIONS

1.1 PRODUCT SPECIFICATIONS

Electrical
◆Voltage:AC100~240V，50/60Hz
◆Rated Power:220W

LED
◆LED:1PC(130W white)
◆Cooling:Forced air convection

Optical System
◆Focus:Electronic linear focus
◆Focus:Electronic focus
◆Dimmer:0~100%
◆Strobe:0~20Hz
◆Rotating 3-facet Prism

Operation
◆Control mode: DMX512/Master-Slave/Auto/Custom/ Sound
◆LCD display
◆DMX512 Chs:14CHS/ 17CHS

Pan/Tilt
◆Pan 540° Tilt 270°
◆Pan/Tilt speed
◆User-selectable Pan/Tilt ranges
◆Reverse Pan/Tilt movement

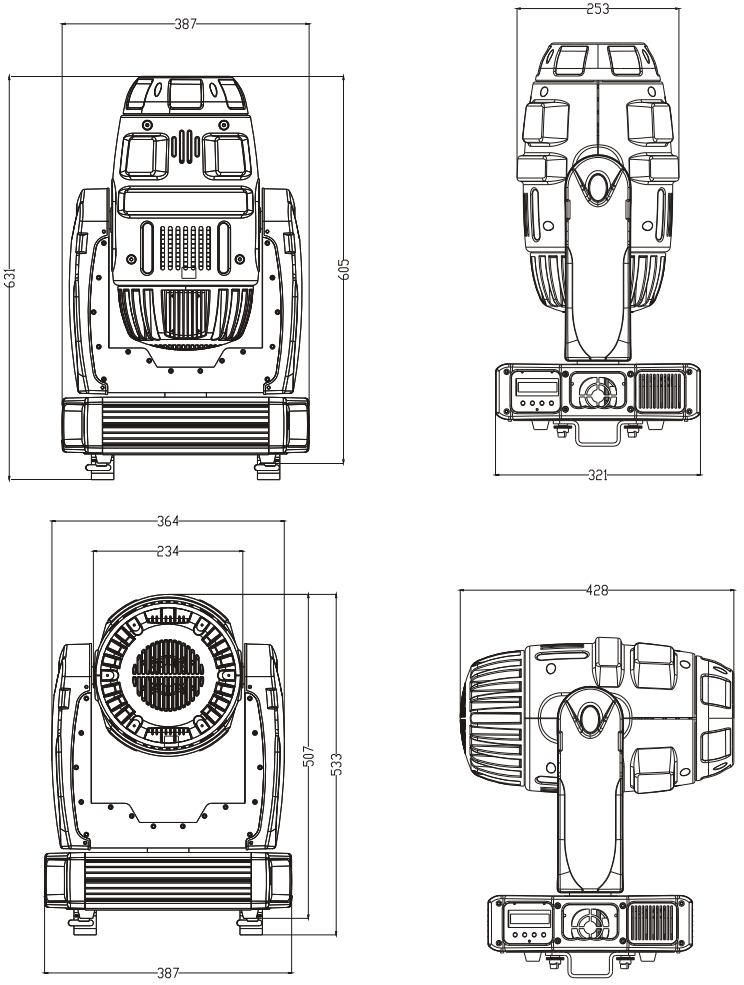
Rotating Gobo
◆6Gobo (interchangeable)
◆Gobo-flow effect
◆Gobo shake
◆Bi-directional rotation

Color
◆7 dichroic - filters + white
◆Rainbow - flow effect

Other features
◆Custom program (255 steps)

◆ Size:387x321x605mm
◆ Weight:22kg

1.2 ***DIMENSIONS***



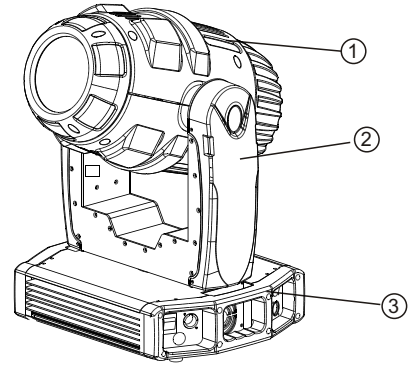
CHANNEL	VALUE	FUNCTION
5		**GOBO WHEEL 1 ROTATION**
	0 ⇔ 60	360° indexing
	61 ⇔ 150	Clockwise rotate from slow to fast
	151 ⇔ 165	No function
	166 ⇔ 255	Anti-clockwise rotate from slow to fast
6		GOBO 2
	0 ⇔ 9	NO GOBO
	11 ⇔ 20	GOBO 1
	21 ⇔ 30	GOBO 2
	31 ⇔ 40	GOBO 3
	41 ⇔ 50	GOBO 4
	51 ⇔ 60	GOBO 5
	61 ⇔ 70	GOBO 6
	71 ⇔ 85	Shaking gobo 6
	86 ⇔ 100	Shaking gobo 5
	101 ⇔ 115	Shaking gobo 4
	116 ⇔ 130	Shaking gobo 3
	131 ⇔ 145	Shaking gobo 2
	146 ⇔ 160	Shaking gobo 1
	161 ⇔ 255	Flow effect
7		**GOBO WHEEL 2 ROTATION**
	0 ⇔ 60	360° indexing
	61 ⇔ 150	Clockwise rotate from slow to fast
	151 ⇔ 165	No function
	166 ⇔ 255	Anti-clockwise rotate from slow to fast
8		**PRISM & PRISM ROTATION**
	0 ⇔ 4	White
	5 ⇔ 9	NO FUNCTION
	10 ⇔ 127	Prism anti- clockwise rotation (slow to fast)
	128 ⇔ 132	NO FUNCTION
	133 ⇔ 255	Prism clockwise rotation (slow to fast)
9		**IRIS**
	0 ⇔ 199	Linear Iris
	200 ⇔ 209	Iris effct: fast close & slow open (slow to fast)
	210 ⇔ 219	Iris effct: slow close & slow open (slow to fast)
	220 ⇔ 229	Iris effct: slow close & fast open (slow to fast)
	230 ⇔ 239	Iris effct: fast close & fast open (slow to fast)
	240 ⇔ 255	Iris effct: Random (slow to fast)
10		**FOCUS**
	0 ⇔ 255	Far ▲ ——— ▲ Near
11		**ZOOM**
	0 ⇔ 127	Zoom 1
	128 ⇔ 255	Zoom 2
12		**DIMMER**
	0 ⇔ 255	Dark ——— Bright

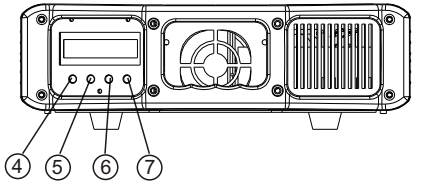
CHANNEL	VALUE	FUNCTION
16		**STROBE**
	0 ⇔ 31	Close
	32 ⇔ 63	Open
	64 ⇔ 95	Strobe: Slow > Fast
	96 ⇔ 127	Open
	128 ⇔ 159	Rulse strobe effect: Slow> Fast
	160 ⇔ 191	Open
	192 ⇔ 223	Random strobe effect: Slow> Fast
	224 ⇔ 255	Open
17		**CONTROL**
	0 ⇔ 19	No function
	20 ⇔ 39	Pan/tilt black activated (activated after 3 secs)
	40 ⇔ 59	Pan/tilt black deactivated (activated after 3 secs)
	60 ⇔ 139	No function
	140 ⇔ 149	Auto1
	150 ⇔ 159	Auto2
	160 ⇔ 169	Test
	170 ⇔ 179	Custom
	180 ⇔ 189	Sound 1
	190 ⇔ 199	Sound 2
	200⇔ 219	Reset
	220 ⇔ 255	No function

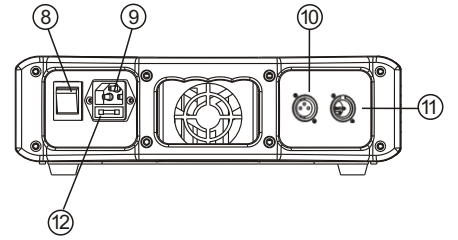
BASIC

CHANNEL	VALUE	FUNCTION
1		**PAN**
	0⇔255	0~540°
2		**TILT**
	0⇔255	0~270°
3		**COLOR WHEEL**
	16 ⇔30	Red
	31⇔45	Green
	46⇔60	Yellow
	61⇔75	Blue
	76⇔90	Orange
	91⇔105	Magenta
	106 ⇔120	Light Green
	121 ⇔255	Rainbow or linear effect
4		**FIXED GOBO WHEEL**
	0 ⇔9	NO GOBO
	11 ⇔20	GOBO 1
	21 ⇔30	GOBO 2
	31 ⇔40	GOBO 3
	41 ⇔50	GOBO 4
	51 ⇔60	GOBO 5
	61 ⇔70	GOBO 6
	71 ⇔85	Shaking gobo 6
	86 ⇔100	Shaking gobo 5
	101 ⇔115	Shaking gobo 4
	116 ⇔130	Shaking gobo 3
	131 ⇔145	Shaking gobo 2
	146 ⇔160	Shaking gobo 1
	161 ⇔255	Flow effect

1.3 PRODUCT FEATURES







No	ITEM	No	ITEM
1	Head	7	Up
2	Side arm	8	Switch
3	Handle	9	Power input
4	Menu	10	DMX 3-PIN signal input
5	Enter	11	DMX 3-PIN signal output
6	Down	12	Fuse holder

1.4 SAFETY WARNING

IMPORTANT:

- This product must be installed by a qualified professional.
- Always operate the equipment as described in the user manual.
- A minimum distance of 0.5m must be maintained between the equipment and combustible surface.
- The product must always be placed in a well ventilated area.
- Always make sure that the equipment is installed securely.
- DO NOT stand close to the equipment and stare directly into the LED light source.
- Always disconnect the power supply before attempting and maintenance.
- Always make sure that the supporting structure is solid and can support the combined weight of the products.
- The earth wire must always be connected to the ground.
- Do not touch the power cables if your hands are wet.

- This product left the place of manufacture in perfect condition. In order to maintain this condition and for safe operation, the user must always follow the instructions and safety warnings described in this user manual.
- Avoid shaking or strong impacts to any part of the equipment.
- Make sure that all parts of the equipment are kept clean and free of dust.
- Always make sure that the power connections are connected correct and secure.
- If there is any malfunction of the equipment, contact your distributor immediately.
- It is important that the power cable is frequently inspected to ensure that there is no damage in any position. If the power cable is damaged in any way, it should be replaced by a qualified electrical technician.
- When transferring the product, it is advisable to use the original packaging in which the product left the factory.
- Shields, lenses or ultraviolet screens shall be changed if they have become damaged to such an extent that their effectiveness is impaired.
- The lamp (LED) shall be changed if it has become damaged or thermally deformed.

CHANNEL	VALUE	FUNCTION
7		FIXED GOBO WHEEL
	0 <⇒> 10	NO GOBO
	11 <⇒> 20	GOBO 1
	21 <⇒> 30	GOBO 2
	31 <⇒> 40	GOBO 3
	41 <⇒> 50	GOBO 4
	51 <⇒> 60	GOBO 5
	61 <⇒> 70	GOBO 6
	71 <⇒> 85	Shaking gobo 6
	86 <⇒> 100	Shaking gobo 5
	101 <⇒> 115	Shaking gobo 4
	116 <⇒> 130	Shaking gobo 3
	131 <⇒> 145	Shaking gobo 2
	146 <⇒> 160	Shaking gobo 1
	161 <⇒> 255	Flow effect
8		**GOBO WHEEL 1 ROTATION**
	0 <⇒> 60	360° indexing
	61 <⇒> 150	Clockwise rotate from slow to fast
	151 <⇒> 165	No function
	166 <⇒> 255	Anti-clockwise rotate from slow to fast
9		**GOBO WHEEL 1 &GOBO SHAKE**
	0 <⇒> 9	NO Gobo
	11 <⇒> 20	Gobo 1
	21 <⇒> 30	Gobo 2
	31 <⇒> 40	Gobo 3
	41 <⇒> 50	Gobo 4
	51 <⇒> 60	Gobo 5
	61 <⇒> 70	Gobo 6
	71 <⇒> 85	Shaking gobo 6
	86 <⇒> 100	Shaking gobo 5
	101 <⇒> 115	Shaking gobo 4
	116 <⇒> 130	Shaking gobo 3
	131 <⇒> 145	Shaking gobo 2
	146 <⇒> 160	Shaking gobo 1
	161 <⇒> 255	Flow effect
10		**GOBO WHEEL 2 ROTATION**
	0 <⇒> 60	360° indexing
	61 <⇒> 150	Clockwise rotate from slow to fast
	151 <⇒> 165	No function
	166 <⇒> 255	Anti-clockwise rotate from slow to fast
11		**PRISM & PRISM ROTATION**
	0 <⇒> 4	White
	5 <⇒> 9	NO FUNCTION
	10 <⇒> 127	Prism anti- clockwise rotation (slow to fast)
	128 <⇒> 132	NO FUNCTION
	133 <⇒> 255	Prism clockwise rotation (slow to fast)
12		**IRIS**
	0 <⇒> 199	Linear Iris
	200 <⇒> 209	Iris effct: fast close & slow open (slow to fast)
	210 <⇒> 219	Iris effct: slow close & slow open (slow to fast)
	220 <⇒> 229	Iris effct: slow close & fast open (slow to fast)
	230 <⇒> 239	Iris effct: fast close & fast open (slow to fast)
	240 <⇒> 255	Iris effct: Random (slow to fast)
13		**FOCUS**
	0 <⇒> 255	Far Near
14		**ZOOM**
	0 <⇒> 127	Zoom 1
	128 <⇒> 255	Zoom 2
15		**DIMMER**
	0 <⇒> 255	Dark Bright

3.8 DEFAULT

【 ***Default***】
● This functions will reset all setting to the original factory setting

4 USING A DMX512 CONTROLLER

4.1 BASIC ADDRESSING

● Connect all of the units in series using standard DMX512 signal cable .
● Set the DMX512 address in the【***DMX***】menu.
● It is possible to have the same DMX address or independent addresses for each fixture.

4.2 CHANNEL ASSIGNMENT

● Note: This product have two DMX512 channel configuration:
【***ADVANCED***】and【***BASIC***】.

ADVANCED

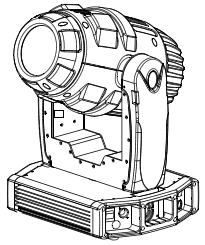
CHANNEL	VALUE	FUNCTION
1	0⇔255	PAN 0~540°
2	0⇔255	PAN FINE Fine control of panmovement
3	0⇔255	TILT 0~270°
4	0⇔255	TILT FINE Fine control of tiltmovement
5	0⇔255	PAN/TILTSPEED From fast to slow
6	0⇔15	COLOR WHEEL NO
	16⇔30	Red
	31⇔45	Green
	46⇔60	Yellow
	61⇔75	Blue
	76⇔90	Orange
	91⇔105	Magenta
	106⇔120	Light Green
	121⇔255	Rainbow or linear effect

2 INSTALLATION

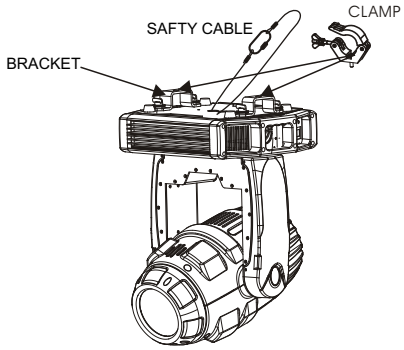
2.1 *MOUNTING*:

●The LED fixture can be operated in any position at any angle. When mounted on a flat surface, the surface must be strong enough to support 10 times the weight of the fixture and stable so that there will be no damage caused to the fixture or surrounding people or objects because of movements of the fixture on the surface.

●When the unit is mounted in a hanging position, the fixture is attached using the mounting brackets and a standard truss clamp or other clamping device. The mounting brackets supplied are mounted using quick-release locks allowing simple mounting or removal.



UPRIGHT



HANGING

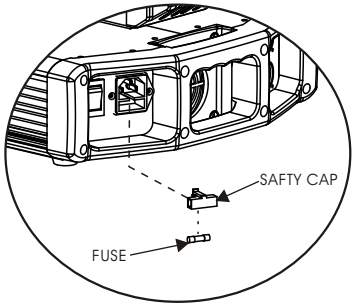
IMPORTANT SAFETY NOTE!!
Always use a safety cable when installing this unit!!
Be sure that the safety cable is connected to a solid load-bearing structure.

2.2 SETTING UP (STAND ALONE)

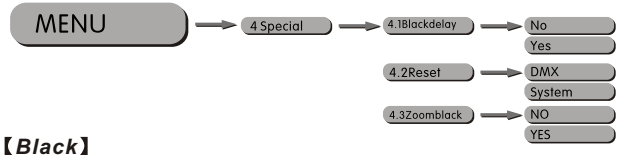
The LED fixture can be used as a stand alone unit. The stand alone functions AUTO 1, AUTO 2, SOUND 1, SOUND2 and CUSTOM can be activated without the need to connect to any controller or connecting to any other equipment.
Simply, access the <operation> menu from the DISPLAY and select the target program to activate.

2.3 FUSE REPLACEMENT

- Remove the safety cap by a screwdriver.
- Fetch the old fuse from safety cap.
- Install a new fuse.
- Install the safety cap.



3.6 SPECIAL

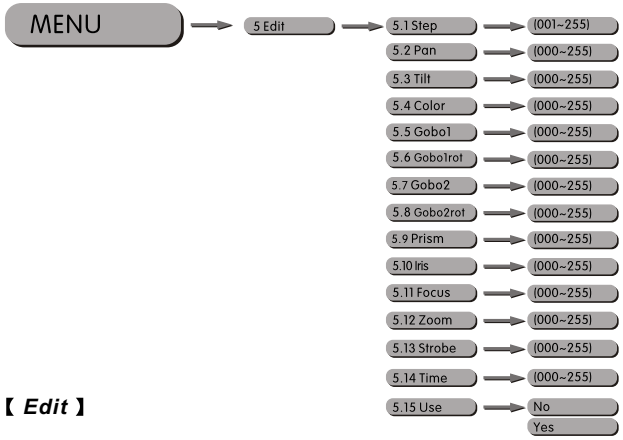


【***Black***】
- Enter【***Black***】to choose【***No***】without delay or【***Yes***】3seconds delay

【***Reset***】
- Enter【***Reset***】to choose【***DMX***】DMX control reset or【***System***】DMX cannot control reset

【***Zoomblack***】
- Enter ***[Zoomblack]*** to choose automatic blackout when zooming.

3.7 EDIT



【 ***Edit*** 】
- Enter the【 ***Edit*** 】mode to edit the custom programs by adjusting the value of【***Step***】,【***Pan***】,【***Tilt***】,【***Color***】,【***Gobo 1***】,【***Gobo1rot***】,【***Gobo 2***】,【***Gobo2rot***】,【***Prism***】,【***Iris***】,【***Focus***】,【***Zoom***】,【***Strobe***】,【 ***Time***】
- Enter【 ***Use***】and select【***Yes***】to run the steps user need.

Note: if user want to circulate the created steps, please set the last step's【***Time***】as 0

For example, there are 3 steps, the setting should be like belowed:
Step 1【***Time***】= 4 【 ***Use***】= Yes
Step 2【***Time***】= 5 【 ***Use***】= Yes
Step 3【***Time***】= 0 【 ***Use***】= Yes

【*Channels*】
● Enter 【***Channels***】 to select the DMX channel modes: 【***Basic***】; 【***Advanced***】.

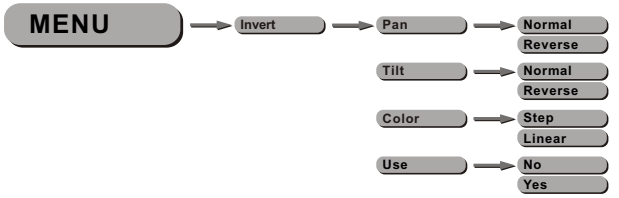
【*Display*】
● Enter 【***Display***】 to select the lighting time of the LCD display panel.

【*Keylock*】
● Enter the 【***Keylock***】 mode to select whether the access password is on or off.
● When the fixture is set as PASS 【***ON***】, after 30 seconds or turn on the fixture next time, the fixture will need an access password to enter the display menu control.

Note: The factory access password is 【***UP***】+【***DOWN***】+【***UP***】+【***DOWN***】, then press 【***ENTER***】 to confirm the access.

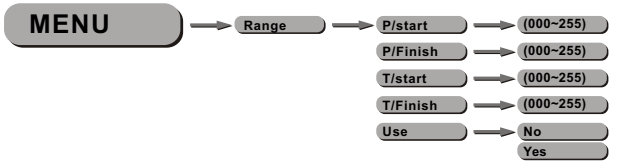
【*Info*】
● Enter 【***Info***】 to see the version of the software.

3.4 INVERT



【 *Invert*】
● Select 【 ***Pan***】/【 ***Tilt***】 to set 【***Normal***】 or 【***Reverse***】
● Select 【 ***Color***】 to select the color wheel flow way 【***Step***】 or 【***linear***】
● Enter 【 ***Use***】 and set 【***Yes***】 to run the new setting

3.5 RANGE



【*P/start*】
● Set pan start value 【***000~255***】

【*P/Finish*】
● Set pan finish value 【***000~255***】

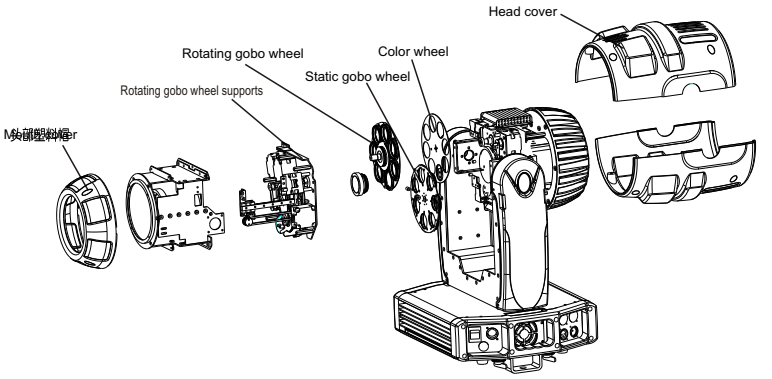
【*T/start*】
● Set Tilt start value 【***000~255***】

【*T/Finish*】
● Set Tilt finish value 【***000~255***】

【 *Use*】
● Enter 【 ***Use***】 and select 【***Yes***】 to open the operation of X/Y angle

2.4 GOBO REPLACEMENT

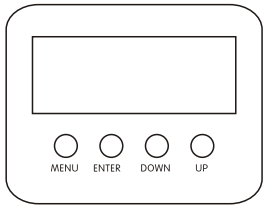
- Take off the head and mouth cover .
- Remove the prism supports;
- Remove the Rotating Gobo wheel supports
- Replace the Gobos or Colors.
- I nstall all parts on the original position.



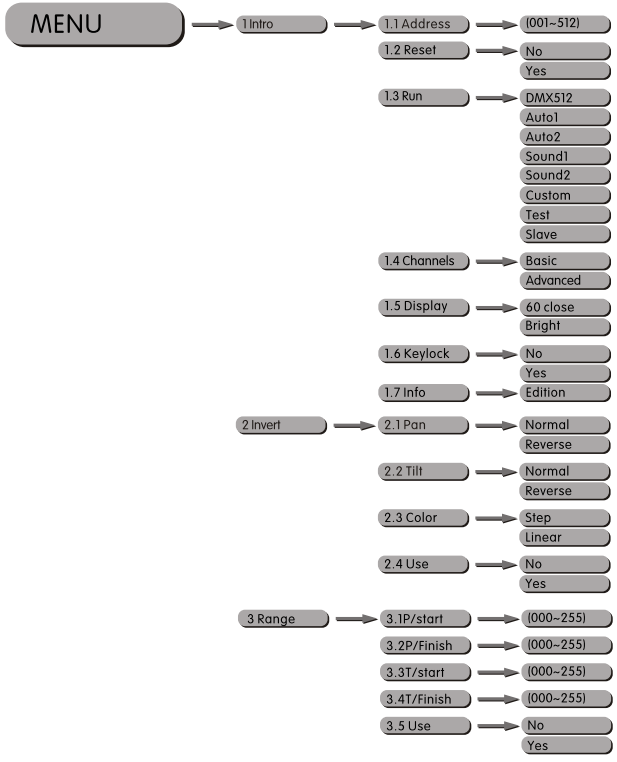
3 DISPLAY PANEL OPERATION

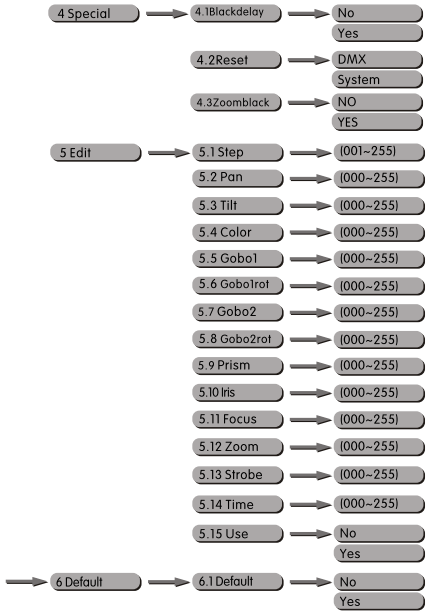
3.1 BASIC

【 **MENU** 】Scroll through the main menu or exit from the current sub-menu
【**ENTER**】Enter the currently selected menu or confirm the current function value
【 **DOWN**】Scroll 'DOWN' through the menu list or decrease the value of the current function
【 **UP** 】Scroll 'UP' through the menu list or increase the value of the Current function

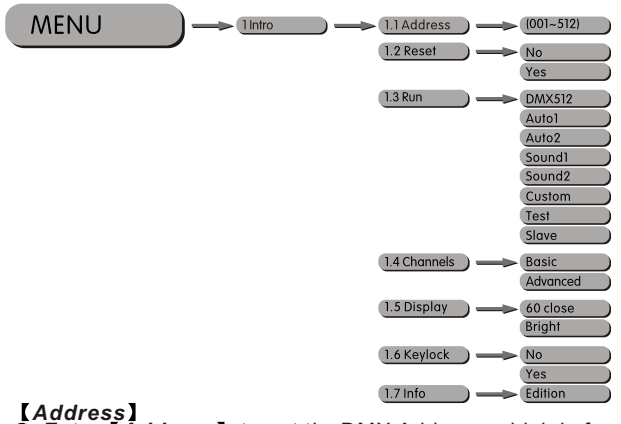


3.2 MENU





3.3 INTRO



【***Address***】
● Enter【***Address***】 to set the DMX Address, which is from (001-512)

【***Reset***】
● In order to rest custom modest to default, select【***Reset***】

【***Run***】
● Enter【***Run***】 to select the operation mode: 【***DMAX512***】; 【***Auto1***】; 【***Auto2***】; 【***Sound 1***】; 【***Sound 2***】; 【***Custom***】; 【***Test***】; 【***Slave***】